Please amend the above-entitled application as follows:

IN THE CLAIMS:

- a. Please amend the claims as follows:
- 1. (Amended) An [[E]] emergency [[L]] lighting [[B]] battery [[S]] system, comprising:
 - a [[B]]battery;
 - a [[P]]processing [[C]]circuit;
 - a multi-voltage-power circuit; and
- a multi-voltage input including a single input channel wherein the single input channel is adapted to connect to various power sources; and
 - an [[0]]occupation [[A]]awareness [[S]]sensor.
- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 2. [[S]] system of claim 1, further comprising:
 - a [[C]]current [[S]]sensor; and
 - a [[V]]<u>v</u>oltage [[S]]<u>s</u>ensor.
- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 3.
- [[S]] system of claim 2, further comprising:
 - a [[L]] $\underline{1}$ ighted [[P]] \underline{p} ush-[[B]] \underline{b} utton [[T]] \underline{t} est [[S]] \underline{s} witch.

- 4. (Amended) The Emergency Lighting Battery System of claim 3, further comprising: An emergency lighting battery system, comprising:
 - a battery;
 - a processing circuit;
 - a multi-voltage power circuit;
 - an occupation awareness sensor;
 - a current sensor;
 - a voltage sensor;
 - a lighted push-button test switch; and
 - an inverter frequency sensor.
- 5. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]]system of claim 3, wherein said [[P]]processing [[C]]circuit comprises:
 - a [[P]]processing [[D]]device, and
 - a [[W]] watch-[[D]] dog [[T]] timer.
- (Amended) The [[E]]emergency [[L]]lighting [[B]]battery 6. [[S]]system of claim 5, wherein said [[P]]processing [[C]]circuit further comprises:
 - a [[V]]volatile [[M]]memory; and
 - a [[N]]non-[[V]]volatile [[M]]memory.

- 7. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]]system of claim 6, wherein said [[P]]processing [[C]]circuit further comprises an [[O]]optional [[R]]real-[[T]]time [[C]]clock.
- 8. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 6, wherein said [[P]] processing [[D]] device comprises:
 - at least one [[F]]flag [[R]]register; and
 a [[P]]pseudo [[R]]real-[[T]]time [[C]]clock.
- 9. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 5, wherein said [[P]] processing [[D]] device comprises:
 - at least one [[F]]flag [[R]]register;

 a [[P]]pseudo [[R]]real-[[T]]time [[C]]clock;

 an [[O]]optional [[V]]volatile [[M]]memory; and

 an [[O]]optional [[N]]non-[[V]]volatile [[M]]memory.
- 10. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 6, wherein said [[N]] non-[[V]] volatile [[M]] memory stores [[P]] processor [[C]] configuration [[D]] data.

- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 11.
- [[S]] system of claim 10, wherein said [[P]] processor
- [[C]]configuration [[D]]data comprises:
 - a [[R]]random [[D]]days [[V]]variable; and
 - a [[R]]random [[T]]test [[N]]number.
- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 12. [[S]] system of claim 10, wherein said [[N]] non-[[V]] volatile [[M]]memory stores [[V]]variables, [[F]]flags, and [[M]]machine
- [[\$]]state.
- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 13.
- [[S]] system of claim 9, wherein said [[O]] optional [[N]] non-
- [[V]] volatile [[M]] memory stores [[P]] processor
- [[C]]configuration [[D]]data.
- (Amended) The [[E]]emergency [[L]]lighting [[B]]battery 14.
- [[S]] system of claim 13, wherein said [[P]] processor
- [[C]]configuration [[D]]data comprises:
 - a [[R]]random [[D]]days [[V]]variable; and
 - a [[R]]random [[T]]test [[N]]number.
- (Amended) The [[E]]emergency [[L]]lighting [[B]]battery 15.
- [[S]] system of claim 13, wherein said [[O]] optional [[N]] non-

- [[V]] volatile [[M]] memory stores [[V]]] variables, [[F]] flags, and [[M]]machine [[S]]state.
- 16. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 5, wherein said [[P]] processing [[D]] device runs a [[S]] state [[M]] machine.
- 17. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 16, wherein said [[S]] state [[M]] machine comprises:
 - a [[S]]sleep [[S]]state; an [[I]]initialization [[S]]state; a [[S]]start-[[U]]up [[S]]state; a [[C]]charge [[S]]state; a [[T]] test [[S]] state; and an [[E]]emergency [[S]]state.
- 18. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 16, wherein said [[V]] variables, [[F]] flags, and [[M]]machine [[S]]state are written to said [[N]]non-[[V]] volatile [[M]] $\underline{\mathbf{m}}$ emory on a periodic basis.

- (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 18, wherein said [[P]] processing [[D]] device runs a [[S]] state [[M]] machine.
- (Amended) The [[E]]emergency [[L]]lighting [[B]]battery 20. [[S]]system of claim 19, wherein said [[V]]variables, [[F]]flags, and [[M]]machine [[S]]state are written to said [[N]]non-[[V]] volatile [[M]] memory prior to said [[S]] state [[M]] machine entering a [[Te]]test [[S]]state.
- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 21, [[S]] system of claim 19, wherein said [[V]] variables, [[F]] \underline{f} lags, and [[M]]machine [[S]]state are written to said [[N]]non-[[V]]volatile [[M]]memory prior to said [[S]]state [[M]]machine entering an [[E]]emergency [[S]]state.
- (Amended) The [[B]]emergency [[L]]lighting [[B]]battery 22. [[S]] system of claim 5, wherein said [[P]] processing [[D]] device performs a self-test on a periodic basis.
- (Amended) The Emergency Lighting Battery System of claim-22, 23. An emergency lighting battery system, comprising:
 - a battery;
 - a processing circuit;

- a multi-voltage power circuit;
- an occupation awareness sensor;
- a current sensor;
- a voltage sensor;
- a lighted push-button test switch;
- an inverter frequency sensor;
- a processing device;
- a watch-dog timer;

wherein said processing device performs a self-test on a periodic basis; and

wherein [[D]] data is transmitted from said [[P]] processing [[D]]device to said [[L]]lighted [[P]]push-[[B]]button [[S]]switch.

- (Amended) The [[E]] emergency [[L]] lighting [[B]] battery 24. [[S]] system of claim 23, wherein said transmitted [[D]] data includes status information.
- 25. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 24, wherein said status information is transmitted on a periodic basis.

- 26. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 25, wherein said periodic status information includes error information.
- 27. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 25, wherein said periodic status information is transmitted at a rate beyond human perception.
- 28. (Amended) The [[E]] emergency [[L]] lighting [[B]] battery [[S]] system of claim 27, wherein said transmitted periodic status information appears to human observers as a periodic heart beat.
- 29. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 2, further comprising:
 - a test [[S]]switch; and an [[E]]external [[D]]data [[T]]transmission [[S]]system.
- 30. (Amended) The [[E]]emergency [[L]]lighting [[B]]battery [[S]] system of claim 29, wherein said [[E]] external [[D]] data [[T]]transmission [[S]]system comprises a radio transmitter.
- 31. (Amended) The emergency lighting battery system of claim 29, An emergency lighting battery system, comprising: a battery;

```
a processing circuit;
```

a multi-voltage power circuit;

an occupation awareness sensor;

a current sensor;

a voltage sensor;

a switch; and

an external data transmission system;

wherein said [[E]]external [[D]]data [[T]]transmission [[S]] system comprises a powerline data interface.

- 32. (Amended) The Emergency Lighting Battery System of claim 29, An emergency lighting battery system, comprising:
 - a battery;

a processing circuit;

a multi-voltage power circuit;

an occupation awareness sensor;

a current sensor;

a voltage sensor;

a switch; and

an external data transmission system;

wherein said [[E]]external [[D]]data [[T]]transmission

[[S]] system transmits data to a Central Data Collection point.